

The US Environmental Protection Agency has a requirement for a power distribution panel. The power distribution panels Statement of Work is as follows:

The United States Environmental Protection Agency's National Air and Radiation Environmental Laboratory (NAREL) in Montgomery, AL has a requirement for an outdoor rated portable power distribution panel to connect various items from Generated 240VAC single phase power as a temporary electrical service. Distribution panel must be elevated from the ground and be suitable for weather and temperature extremes. Anchoring points must be incorporated in the design for operation in high winds. All receptacles must be on their own individually protected circuits. Distribution panel must be self-supporting and provide a means for movement by a single individual (wheels, cart, dolly, etc). The electrical panel shall meet the latest O.S.H.A. and N.E.C. requirements based on date of order. Panel shall be wired as a sub-panel with neutral bus bar isolated from grounding bus bar. All receptacles shall be mounted to allow for continued connection with uninterrupted power in rainy conditions. All receptacle connections must be a minimum of 24" from the ground. Distribution panel to be painted with fade and chip resistant Onan Generator green paint by vendor. Vendor to supply design sketches for review prior to award of contract.

TECHNICAL REQUIREMENTS

1. Physical Description:
Single box custom enclosure for housing all panels and receptacles size not to exceed 36" L, 36"W, 40"H, 300 lbs
2. Outdoor rated and comply with the latest O.S.H.A. and N.E.C requirements based on date of order.
3. Panel must be self supporting and stable and provide an integrated means for movement by a single individual (wheels, cart, dolly, etc) **without** the use of a fork lift or crane.
4. Master/Main Breaker
The entire panel must be capable of being de-energized by a master breaker.

Main Circuit Breaker: Two pole, 100 Amps
5. Primary Input Connection
Hubbell Ship to Shore Pin Receptacle (P/N: M4100B12R) mounted to custom enclosure. Single phase, three wire + ground, 240VAC Output Power Connections
6. Two (2) Single Phase, three wire + ground, 240VAV/100 AMP Female Pin Receptacles Hubbell (P/N M4100R12) mounted with 2 pole 100 amp circuit breakers
7. Two (2) Single Phase, 125/250 VAC/50 Amp receptacles (NEMA 14-50R (P/N 9450A) with 2 pole 50 amp circuit breakers

8. Two (2) Single Phase, 250 VAC/30 Amp, Hubbell Twist-lock receptacles, (NEMA L6-30R P/N 2620SR) with 2 pole, 30 amp circuit breakers
9. Two (2) Single Phase, 125 VAC/30 Amp, Hubbell Twist-lock receptacles, (NEMA L5-30R P/N 2610SW) with single pole, 30 amp circuit breakers)
10. Ten (10) Single Phase, 125VAC/20 Amp Receptacles (NEMA 5-20R, P/N 5361) with a single pole 20 AMP GFCI Circuit Breaker **for each outlet.**
11. Two (2) Single Phase 125VAC , Explosion proof incandescent fixture. Mounted to panel connected to the two separate legs of the supply. (One light fixture connected to each bus bar)
Hazardous locations.
Class I, Div.1 and 2, Group C and D.
Incandescent Class II, Div. 1 and 2, Groups E, F, and G.
Class III.
UL Listed 844
Paint Spray booth, wet/damp locations, marine locations.
Corrosion Resistant.
Vertically Telescopic.
Pivoting.
Individual switches.
General purpose industrial.
12. Individual monitor gages for each phase for both voltage and current. Current and Voltage to be displayed simultaneously.
13. Vendor shall supply line item pricing for the following additional options
 - a. One (1) each - 50 foot 2 gage/4 conductor SOOW cord with the following end connections:
 - i. Cord Connector Hubbell (P/N **M4100C12R**)
 - ii. Cord Connector Hubbell (P/N M4100P12)
 - b. One (1) each - 50 foot 2 gage/4 conductor SOOW cord with the following end connections:
 - i. Cord Connector Hubbell (P/N **M4100C12**)
 - ii. Cord Connector Hubbell (P/N M4100P12)
14. Container/Bag/Storage Reel for SOOW cords

15. Vendor shall provide estimated shipping cost to:
US EPA NAREL

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